UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/873,687	06/04/2001	Michelle R. Lehmeier	10003826-1	4781

7590 03/21/2006	EXAMINER
HEWLETT-PACKARD COMPANY Intellectual Property Administration P.O. Box 272400 Fort Collins, CO 80527-2400	WOO, ISAAC M

ART UNIT	PAPER NUMBER
2166	

DATE MAILED: 03/21/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

PTO-90C (Rev. 10/03)

Office Action Summary	Application No.	Applicant(s)
	09/873,687	LEHMEIER ET AL.
	Examiner	Art Unit	
	Isaac M. Woo	2166	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE <u>3</u> MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1)☒ Responsive to communication(s) filed on *21 January 2006*.

2a)☒ This action is **FINAL.** 2b)☐ This action is non-final.

3)☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4)☒ Claim(s) *29-49* is/are pending in the application.

     4a) Of the above claim(s) *29-33 and 44-49* is/are withdrawn from consideration.

5)☐ Claim(s) _____ is/are allowed.

6)☒ Claim(s) *34-43* is/are rejected.

7)☐ Claim(s) _____ is/are objected to.

8)☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9)☐ The specification is objected to by the Examiner.

10)☐ The drawing(s) filed on _____ is/are: a)☐ accepted or b)☐ objected to by the Examiner.

     Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

     Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11)☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12)☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

     a)☐ All. b)☐ Some * c)☐ None of:

       1.☐ Certified copies of the priority documents have been received.

       2.☐ Certified copies of the priority documents have been received in Application No. _____.

       3.☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

     * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1)☐ Notice of References Cited (PTO-892)

2)☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)

3)☒ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date *1/3/2006*.

4)☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____.

5)☐ Notice of Informal Patent Application (PTO-152)

6)☐ Other: _____.

DETAILED ACTION

1.   This action is in response to Applicant's Responses, filed on December 21, 2005

have been considered but they are not persuasive.

2.   Claims 1-28 are canceled. Claims 29-49 are pending. Claims 29-33 and 44-49

are withdrawn. Claims 34-43 are presented for examination.

Response to arguments

In response to Applicant's Remarks filed on December 21, 2005, the following

factual arguments are noted:

Liaguno et al (U.S. Patent No. 5,729,741) does not disclose or suggest,

"converting spoken words to data descriptive of file content" and "storing characteristics

and descriptive data" for claim 34, "semantic processing engine extracts keywords

associated with a text file" "speech recognition engine converts spoken words

describing content" into "descriptive data" and "meta data comprising said content

characteristics and descriptive data of each file" for claim 38.

However, examiner disagrees. Liaguno discloses converting spoken words (211,

import voice/speech as digitized, fig. 2) to data descriptive of file content (i.e., 213,

voice/speech to text conversion, fig. 2, col. 9, lines 42-64, Fig. 4, col. 12, lines 45-67 to

col. 13, lines 1-13, voice/ speech is converted into texts that are contents of file);

storing, with the file (text file that created with new format of file, fig. 2), the content

characteristics (text file from 203, fig. 2) and the descriptive data (text file from 213, fig.

2). This teaches that once voice or speech information is digitized, the voice or speech

data is converted to text data file, which describes (descriptive data) content

characteristics for claims 34 and 40. Liaguno discloses, "Pursuant to this key word field-

generation subroutine of the present invention, as each `text` image file is generated,

shown at 311 in FIG. 3, it is subjected to a non-essential word extraction operation,

shown at 313, which reduces the contents of the media image's text file to one or more

`key words`, that are loaded into the key word index field 307", (keywords are extracted

from image file, fig. 2, fig. 3, col. 11, lines 9-56). This teaches that keywords are

extracted and extracted keywords are used as index that is used for data retrieval.

Thus, Liaguno teaches "converting spoken words to data descriptive of file content" and

"storing characteristics and descriptive data" for claim 34, "semantic processing engine

extracts keywords associated with a text file" "speech recognition engine converts

spoken words describing content into descriptive data" for claim 40. Liaguno teaches

the keyword index that is one of data type to points or describes another data, which is

a definition of meta data (fig. 3, col. 11, lines 1-56) and the meta data comprising

descriptive data (text) and content characteristics. Thus, teaches, "meta data

comprising said content characteristics and descriptive data of each file" for claim 38.

Claim Rejections - 35 USC § 102

3.   The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that

form the basis for the rejections under this section made in this Office action:

> A person shall be entitled to a patent unless –
>
> (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

4.   Claims 34-43 are rejected under 35 U.S.C. 102(b) as being anticipated by

Liaguno et al (U.S. Patent No. 5,729,741, hereinafter, "Liaguno").

        With respect to claim 34, Liaguno discloses, identifying content characteristics

(203, format text-containing image file into text file) of a file (201, from import text image,

fig. 2, col. 9, lines 5-41) using a processing engine (21, view/scan capture station, fig.1,

col. 7, lines 46-55) that analyzes content of the file, see (col. 9, lines 5-41, computer

system of Liaguno, texts file (203, fig. 2) that comprises texts that describe content

characteristics); converting spoken words (211, import voice/speech as digitized base

image file, fig. 2) to data descriptive of file content (213, voice/speech to text

conversion, fig. 2, col. 9, lines 42-64, Fig. 4, col. 12, lines 45-67 to col. 13, lines 1-13,

voice/ speech is converted into texts that are contents of file); storing, with the file (text

file that created with new format of file, fig. 2), the content characteristics (text file from

203, fig. 2) and the descriptive data (text file from 213, fig. 2); and retrieving, accessing,

or identifying (607, stored hashed code in index search file, fig. 6) the file using the

content characteristics or the descriptive data, see (307, keywords index is used to

search file, fig. 3, col. 11, lines 9-30, stored media file that is retrieved by text or
keyword).

With respect to claim 35, Liaguno discloses that the content characteristics is
textual information (text file, 203, fig. 2) generated using an image recognition system,
see (201, 203, fig. 2, col. 9, lines 6-41, image with text file scanned processed by OCR,
optical character recognition, program).

With respect to claim 36, Liaguno discloses that the content characteristics are
keywords associated with a textual portion of the, see (text format file created from text-
containing document with image, 203, fig. 2, col. 9, lines 6-41, image with text file
scanned processed by OCR, optical character recognition, program).

With respect to claim 37, Liaguno discloses that the descriptive data is textual
information (text file, 203, fig. 2) generated using a speech recognition engine, see (213,
voice/speech to text conversion, fig. 2, col. 9, lines 42-64, Fig. 4, col. 12, lines 45-67 to
col. 13, lines 1-13, voice/ speech is converted into texts that are contents of file).

With respect to claim 38, Liaguno discloses that a plurality of the files (fig. 3, the
folder (307, fig. 3) includes a plurality of files); and metadata (i.e., keyword index, fig. 3)
comprising the content characteristics and descriptive data of each the file, see (fig. 3,
col. 11, lines 1-56, each file with topic and description for meta data of each file)

With respect to claim 39, Liaguno discloses that each file identifiable, accessible, or retrievable using the content characteristics and descriptive data, see (307, keywords index is used to search file, fig. 3, col. 11, lines 9-30, stored media file that is retrieved by text or keyword).

With respect to claim 40, Liaguno discloses, semantics processing engine extracting keywords associated with a text file (image file containing text, the file from 201 to file 203, fig. 2), (keywords are extracted from image file, fig. 2, fig. 3, col. 11, lines 9-56); speech recognition engine converting spoken words (211, import voice/speech as digitized base image file, fig. 2) describing content in the text file into file descriptive data, see (213, voice/speech to text conversion, fig. 2, col. 9, lines 42-64, Fig. 4, col. 12, lines 45-67 to col. 13, lines 1-13, voice/ speech is converted into texts that are contents of file); data structure, stored with the text file in a memory, comprising the keywords (307, keyword index, fig. 3) and the descriptive data, and used by the text file retrieval system to identify the text file, see (607, fig. 6, col. 13, lines 51-67 to col. 14, lines 1-17, stored hashed code index search file, keyword index is used for retrieval file).

With respect to claim 41, Liaguno discloses that search engine configured to search for the keywords or the descriptive data so as to identify file associated with the keywords and the descriptive data, see (607, fig. 6, col. 13, lines 51-67 to col. 14, lines 1-17, stored hashed code index search file, keyword index is used for retrieval file).

With respect to claim 42, Liaguno discloses that character recognition engine configured to generate the text file from a scanned document, see (text format file created from text-containing document with image, 203, fig. 2, col. 9, lines 6-41, image with text file scanned processed by OCR, optical character recognition, program).

With respect to claim 43, Liaguno discloses that optical recognition engine generating textual data associated with characteristics of the image data; and wherein the data structure further comprises the textual data, see (text format file created from text-containing document with image, 203, fig. 2, col. 9, lines 6-41, image with text file scanned processed by OCR, optical character recognition).

Conclusion

5.   **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any

extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of

the advisory action. In no event, however, will the statutory period for reply expire later

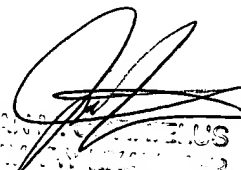than SIX MONTHS from the mailing date of this final action.

Contact Information

6.   Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Isaac M. Woo whose telephone number is (571) 272-

4043. The examiner can normally be reached on 8:00-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Hosain T. Alam can be reached on (571) 272-3978. The fax phone number

for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the

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published applications may be obtained from either Private PAIR or Public PAIR.

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you have questions on access to the Private PAIR system, contact the Electronic

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IW
March 18, 2006